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Inventor(s): BOCK EBERHARD PROF DR (DE)
Applicant(s):: BOCK EBERHARD (DE)
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Abstract

Nitrification and nitrogen removal processes are disclosed. The nitrates contained in an initial aqueous solution are reduced by nitrifying agents, the reaction products thus obtained, ammonium and nitrite are reconverted into nitrate by a continuous process of oxidation, releasing gazeous nitrogen compounds such as N2O or NO. A microorganism, Nitrobacter nov. spec. T3, isolated to implement this process, differs from known nitrous bacteria by a series of physiological, biochemical and genetic properties.